

Mohammed Anowarul Hassan

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OBJECTIVE

Looking for Full-Time position in January 2015.

EDUCATION

- Ph.D. Candidate, Computer Science. **Expected Graduation: Fall 2014.**
Currently enrolled at Ph.D. program in George Mason University, VA. (CGPA 3.94/4.00)
- BSc. Computer Science. November, 2006.
Bangladesh University of Engineering and Technology. (CGPA 3.81/4.00).

INDUTRIAL EXPERIENCE

- **Summer Intern NetApp (May 2013 – August 2013):** Designed and developed a model to achieve more parallelism for data access in Write Anywhere File Layout (WAFL: the NetApp file system). Current design of WAFL does not scale-up well with the multi-processor environment. In this project, we modified the data access and affinity rules in the system level to distribute load among multiple processors more evenly.
- **Summer Intern SAP Labs (May 2012 – August 2012):** Designed and developed the backend features of “**Data Service on Demand**” which are the parts of DSOD V1 live Nov 15, 2012. The features include load balancing and communication between the servers, viewing the metadata and the log files from database. The knowledge and skills relevant to this project are: Java, ActiveMQ, Apache Server, Hana Database, Multithreaded and Distributed Programming, Data Structure and Algorithm, and Version Control (Perforce).
- **Member of R&D: Colria System INC:(Sep/2006-Jan/2007):**
Developed "Information Organizer" (a virtual folder) to store all the URL, E-Mail from OutLook and regular files systematically and design plug-in(s) for Internet Explorer, Microsoft Outlook, Windows explorer, and Microsoft Office.

RESEARCH EXPERIENCE

Graduate Research Assistant. Advisor: Dr. Songqing Chen.

- **Mobile Cloud Computing:**
Conducting research to augment computation and storage of mobile devices with the cloud. Designed and developed architecture to offload computation-intensive mobile applications/methods to the cloud to augment computation power. Designed and developed architecture for storage augmentation of mobile devices to access data across multiple devices owned by a single or a group of users.
- **Scientific Cloud Computing:**
Currently continuing research in NSF funded “**Dust Storm Project**” to find the feasibility of various cloud environments to support Earth Science Applications.

TEACHING EXPERIENCE

- **Graduate Teaching Assistant (George Mason University):**

Conducted lectures and supervised lab works for Introduction to Programming Language (Fall 2010), Object Oriented Programming Language (Spring 2010, Fall 2009), Formal Methods & Models (Summer 2010), and Networked Virtual Environments & Computer Networking (Spring 2011).

- **Lecturer:**

Full time Lecturer at the Department of Computer Science and Engineering, United International University, Dhaka, Bangladesh(www.uiubd.com) (Feb/2007-Jun/2009). Conducted Algorithm, Data Structure, Digital Logic and C Programming Language in undergrad level.

COMPUTER SKILL

- Programming Language: C/C++, Java (expert); Assembly Language, Python, C# (prior experience).
- Cloud and Grid Computing: Hadoop, Programming Amazon Elastic Cloud, MPI(moderate).
- Mobile Programming: Android SDK(advanced), Objective-C (moderate).
- Web Technologies: Rest, SOAP, Struts, PHP, JSP, JS, HTML5 (moderate).
- Database: Hana, Oracle, MySql (moderate).
- Tools and Framework: ActiveMQ, DOT NET, MFC, Weka, Abstract Template Library, Dynamic Link Library(prior experience).
- Virtual Machine: VMWare, VirtualBox, Dalvik VM.

SELECTED PUBLICATIONS

- POMAC: Properly Offloading Mobile Applications to Clouds. M. A. Hassan, K. Bhattarai, Qi Wei and S. Chen. (Usenix Hotcloud 2014, PA US)
- vUPS: Virtually Unifying Personal Storage for Fast and Pervasive Data Accesses. M. A. Hassan, Kshitiz Bhattarai, and S. Chen. (Mobicase 2012, Seattle, WA US)
- Mobile MapReduce: Minimizing Response Time of Computing Intensive Mobile Applications Mohammed A Hassan and S. Chen (MobiCase 2011 LA, CA US)

AWARDS

- Outstanding Teaching Assistant Award, Spring 2011
- George Mason University Doctoral Fellowship, Spring 2011, 2012.
- Full Tuition Scholarship and Teaching Assistantship, GMU. Fall, 2009 to Spring, 2011.
- University Merit Scholarship. (Session 2001-2002, Term-2).
- University Deans Scholarship. (Session 2000-2001, Session 2001-2002)

REFERENCE

- Dr. Songqing Chen
Associate Professor, George Mason University.
sqchen@cs.gmu.edu
- Dr. Sanjeev Setia
Professor and Chair, George Mason University.
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